**WE CLAIM:**

1    1.    In a patient programmer, a method for patient-directed therapy

2    management for a medical device comprised of:

3    accessing at least one preset clinician therapy program stored in the medical

4    device;

5    creating at least one personalized therapy program from the accessed preset

6    clinician therapy program;

7    storing the personalized therapy program in the medical device; and

8    executing at least one personalized therapy program.

1    2.    The method for patient directed therapy management of claim 1 wherein

2    the personalized therapy program comprises at least one personalized therapy setting.

1    3.    The method for patient directed therapy management of claim 2 wherein

2    the personalized therapy settings are comprise of at least one of an amplitude, a rate, a

3    pulse width, a pulse frequency, electrode polarities, or a directional sequence.

1    4.    The method for patient directed therapy management of claim 2 wherein

2    the patient programmer executes a personalized therapy algorithm.

1    5.    The method for patient directed therapy management of claim 2 wherein

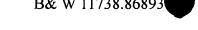2    the patient programmer executes a timing algorithm.

1       6.     The method for patient directed therapy management claim 2 wherein the

2    medical device and the patient programmer communicate via telemetry.

1       7.     The method for patient directed therapy management of claim 2 wherein

2    the medical device is an implantable neuro stimulator.

1       8.     The method for patient directed therapy management claim 2 wherein the

2    medical device is an external neuro stimulator

1       9.     The method for patient directed therapy management of claim 2 wherein

2    the medical device is selected from the group consisting of a pacemaker, a defibrillator, a

3    cochlear implant, an implantable diagnostic device, and an implantable pump.

1      10.    A patient directed therapy management system comprising in

2    combination:

3    a medical device comprising a telemetry block and memory with at least one

4    preset clinician therapy program; and

5    a patient programmer comprising a telemetry block, the patient programmer able

6    to allow creation of at least one personal therapy program, and storage and execution of at

7    least one personalized therapy program in the medical device.

1       11.     The patient directed therapy management system of claim 10 wherein the

2    personalized therapy program comprises at least one personalized therapy settings.

1       12.     The patient directed therapy management system of claim 11 wherein the

2    personalized therapy settings are comprised of at least one of an amplitude, a rate, a

3    pulse width, a pulse frequency, electrode polarities, or a directional sequence.

1       13.     The patient directed therapy management system of claim 11 wherein the

2    patient programmer executes a personalized therapy algorithm.

1       14.     The patient directed therapy management system of claim 11 wherein the

2    patient programmer executes a timing algorithm.

1       15.     The patient directed therapy management system of claim 13 or 14

2    wherein the patient uses the graphical display screen and input medium to create and

3    store the personalized therapy programs.

1       16.     The patient directed therapy management system of claim 11 wherein the

2    medical device and the patient programmer communicate via telemetry.

1       17.     The patient directed therapy management system of claim 11 wherein the

2    medical device is an implantable neuro stimulator.

1   18.   The patient directed therapy management system of claim 11 wherein the

2   medical device is an external neuro stimulator.

1   19.   The patient directed therapy management system of claim 11 wherein the

2   medical device is selected from the group consisting of a pacemaker, a defibrillator, a

3   cochlear implant, an implantable diagnostic device, and an implantable pump.

1   20.   A patient programmer for patient directed therapy management

2   comprising in combination:

3   an input medium;

4   a telemetry block; and

5   a controller able to create at least one personalized therapy program and store at

6   least one personalized therapy program in a medical device.

1   21.   The patient programmer of claim 20 wherein the personalized therapy

2   program comprises at least one personalized therapy setting.

1   22.   The patient programmer of claim 21 wherein the personalized therapy

2   setting are comprised of at least one of an amplitude, a rate pulse width, a pulse

3   frequency, electrode polarities, or a directional sequence.

1   23.   The patient programmer of claim 21 wherein the computer instructions

2   executed by the patient programmer are a personalized therapy algorithm.

1    24    The patient programmer of claim 21 wherein the executed computer

2    instructions are a timing algorithm.

1    25.    The patient programmer of claim 23 or 24 wherein the patient uses a

2    graphical screen interface and input medium to create and store the personalized therapy

3    programs.

1    26.    The patient programmer of claim 21 wherein the medical device and the

2    patient programmer communicate via telemetry.

1    27.    The patient programmer of claim 21 wherein the medical device is an

2    implantable neuro stimulator.

1    28.    The patient directed therapy management system of claim 21 wherein the

2    medical device is an external neuro stimulator.

29.    The patient directed therapy management system of claim 17 wherein the

2    medical device is a medical device selected from the group consisting of a pacemaker,

3    defibrillator, a cochlear implant, an implantable diagnostic devices, and an implantable

4    pump.

1      30.      A patient programmer comprising:

2      an input medium;

3      a means, connected to the input medium, for creating at least one personalized

4 therapy program; and

5      a communication means, connected to the means for creating, for storing and

6 executing at least one personalized therapy program in a medical device.